



OIPE

RAW SEQUENCE LISTING

DATE: 05/09/2002

PATENT APPLICATION: US/10/039,836A

TIME: 12:50:30

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\05092002\J039836A.raw

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4 <110> APPLICANT: Crane, Virginia
5     Simmons, Carl
7 <120> TITLE OF INVENTION: Maize Proteinase Inhibitor-Like
8     Polynucleotides and Methods of Use
12 <130> FILE REFERENCE: 35718/239836
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/039,836A
C--> 14 <141> CURRENT FILING DATE: 2001-10-23
14 <150> PRIOR APPLICATION NUMBER: 60/243,167
15 <151> PRIOR FILING DATE: 2000-10-25
17 <160> NUMBER OF SEQ ID NOS: 4
19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 565
23 <212> TYPE: DNA
24 <213> ORGANISM: Zea mays
26 <220> FEATURE:
27 <221> NAME/KEY: misc_feature
28 <222> LOCATION: (0)...(0)
29 <223> OTHER INFORMATION: Proteinase Inhibitor-Like cDNA
31 <221> NAME/KEY: CDS
32 <222> LOCATION: (60)...(353)
W--> 34 <400> 1
35 gacccacgcg tccgctggcc tggtcttaat tattgccagg acaggagaaa caaacaaag 59
36 atg agg cct cag ctg ata ctc gtc ggc act ctg gct gtt ctc gcc atc 107
37 Met Arg Pro Gln Leu Ile Leu Val Gly Thr Leu Ala Val Leu Ala Ile
38 1 5 10 15
40 ctc gca gct ctc ggc gaa ggc tcg tcg tcc tgg ccg tgc tgc aac aac 155
41 Leu Ala Ala Leu Gly Glu Gly Ser Ser Ser Trp Pro Cys Cys Asn Asn
42 20 25 30
44 tgc ggt gct tgc aac agg aag cag ccg cct gag tgc cag tgc aat gac 203
45 Cys Gly Ala Cys Asn Arg Lys Gln Pro Pro Glu Cys Gln Cys Asn Asp
46 35 40 45
48 gtg tcg gtg aac ggg tgc cat ccg gag tgc atg aac tgc gtc aag gtc 251
49 Val Ser Val Asn Gly Cys His Pro Glu Cys Met Asn Cys Val Lys Val
50 50 55 60
52 ggt gca gga att cgt ccc ggc atg ggc ccc ggc ccc gtc gtc acc tac 299
53 Gly Ala Gly Ile Arg Pro Gly Met Gly Pro Gly Pro Val Val Thr Tyr
54 65 70 75 80
56 cgc tgt gat gac gtt ctc aca aac ttc tgc cag agc agc tgc ccg gag 347
57 Arg Cys Asp Asp Val Leu Thr Asn Phe Cys Gln Ser Ser Cys Pro Glu
58 85 90 95
60 gcg tag ttgctgggtg gtggtgtctt cttctgacgc catgggacgc cagtacgcaa 403
61 Ala *
```

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64 ccagtttgc tctctccagc ttcgtcagac aagaaataga taaataaaca aatgtcaccg 463
 65 gccgctctgt tcggtgcttg ctcttggtcg tcgtcagaga agaaatagat aaataaataa 523
 66 ataaataaat aaatagccaa aaaaaaaaaa aaaaaaaaaa aa 565

68 <210> SEQ ID NO: 2

69 <211> LENGTH: 97

70 <212> TYPE: PRT

71 <213> ORGANISM: Zea mays

73 <400> SEQUENCE: 2

74 Met Arg Pro Gln Leu Ile Leu Val Gly Thr Leu Ala Val Leu Ala Ile

75 1 5 10 15

76 Leu Ala Ala Leu Gly Glu Gly Ser Ser Ser Trp Pro Cys Cys Asn Asn

77 20 25 30

78 Cys Gly Ala Cys Asn Arg Lys Gln Pro Pro Glu Cys Gln Cys Asn Asp

79 35 40 45

80 Val Ser Val Asn Gly Cys His Pro Glu Cys Met Asn Cys Val Lys Val

81 50 55 60

82 Gly Ala Gly Ile Arg Pro Gly Met Gly Pro Gly Pro Val Val Thr Tyr

83 65 70 75 80

84 Arg Cys Asp Asp Val Leu Thr Asn Phe Cys Gln Ser Ser Cys Pro Glu

85 85 90 95

86 Ala

90 <210> SEQ ID NO: 3

91 <211> LENGTH: 925

92 <212> TYPE: DNA

93 <213> ORGANISM: Zea mays

95 <220> FEATURE:

96 <221> NAME/KEY: misc_feature

97 <222> LOCATION: (0)...(0)

98 <223> OTHER INFORMATION: Proteinase Inhibitor-like promoter

100 <400> SEQUENCE: 3

101 actatagggc acgcgtgggc gacggcccg gctggtcgta tttgtgtcca aacattttga 60

102 tgtgatgggt cagcccctta tacgattgcc ttacgttatg aatggctata atattggaaa 120

103 cgcacatcagc agtgggaagtc gctggtcggt gggttgcagc gtgtatacgt ggcattctagg 180

104 tggccttgat tttcttcttt gtcgcaactgt ttctacattt cattggcaga tatgtatgaa 240

105 ctaaattatt ggccacttaa ggaggtgttt gaatgcaata aaactaatag ttagttggct 300

106 aaaattgtta gtgaaattat ctactaaca aatagctacc taactattaa ctaatttacc 360

107 aaaaataact tatagttaaa ttattaagtt gggctgtttg aatgtctcaa ctaattttag 420

108 ccactaactt ttatctttag tgcattcaaa catggcataa gtctacgttt gatttgagac 480

109 ggtagcatcg tgcgtacgga agaggaacca aaaggatttt ccttgaaaat tttcatgcac 540

110 qtgggcccgc tgcagacgga gatgagcacc gcgaaatcaa tctggataga tcgtcgtctc 600

111 gtcaatcatt gcggtgctga cggctctaatt ttcttgcaac cagcaacttg aaagagacag 660

112 tctaggagga ttgtcaaaaa tatataatgc ttggttcta cgtacgtacc tgttgccct 720

113 ggtggtcaaa gatgatcttc aagaaaacat cctggatttt cctctttcat atattcatat 780

114 tcaccgtcag tacgcgtgta tgatttggtt ttgtatttgc ttcttgtaca agagatgaac 840

115 qaaagtcaa ggaagcctcc ctcgatcccc tctctatat atatatatac aagaagacct 900

116 tagagccgca ggaaggaaat ctatc 925

118 <210> SEQ ID NO: 4

119 <211> LENGTH: 72

120 <212> TYPE: DNA

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PATENT APPLICATION: US/10/039,836A

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Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\05092002\J039836A.raw

121 <213> ORGANISM: Artificial Sequence

123 <220> FEATURE:

124 <223> OTHER INFORMATION: oligonucleotide primer

126 <400> SEQUENCE: 4

127 ggccqctcga gtccaaagtc aggtcacagt gacctgatca aagttgtcca aagtcaggtc 60

128 acagtgacct ga 72

VERIFICATION SUMMARY

DATE: 05/09/2002

PATENT APPLICATION: US/10/039,836A

TIME: 12:50:31

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\05092002\J039836A.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:34 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1